Test Report
Consistency test

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	PCC(1:4:8)
Contractor	M/s KRIDL
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	26-Jul-2020
Test Date	4-Aug-2020

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	21	18	10	6.5	5

Results: Standard Consistency of Cement: 30.50%

Note:

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For Qualiex Civil Design & Consultancy

Authorised Signature

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Test Report
Fineness test

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	PCC(1:4:8)
Contractor	M/s KRIDL
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	26-Jul-2020
Test Date	4-Aug-2020

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	3	2.8
3	Percentage retained (%)	3	2.8
4	Average Percentage retained (%)	2.9	

Results: Residue of cement is: 2.9%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

Note:
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಮ.ಪ. ಬೆಂಗಳೂರು-106

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Test Report
Soundness test

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	PCC(1:4:8)
Contractor	M/s KRIDL
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	26-Jul-2020
Date	4-Aug-2020

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	12	12	14
3	Difference or expansion	1	2	3
4	Average Differences or Expansion in mm	2.00		

Results: Difference in Expansion of Cement: 2.00mm
Comments: Maximum allowable Expansion of cement is 10mm.

Note:

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GSTIN: 29AYHPN8663P1ZA

QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Compressive strength test

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	PCC(1:4:8)
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Sample No	1
Sample Collected Date	26-Jul-2020
Test Date	2-Aug-2020

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	-	0.825	70.6x70.6 x70.6	2302.0	184	4984	36.12	36.62
2	43	7	-	0.830	70.6x70.6 x70.6	2358	182	4984	36.12	

Results: 7-days Compressive strength of cement is 36.62N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-10೬

QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Gradation test

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	PCC(1:4:8)
Contractor	M/s KRIDL
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Sample Collected Date	26-Jul-2020
Test Date	4-Aug-2020

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	10	5.00	5.00	95.00	90-100	
3	2.36 mm	19	9.50	14.50	85.50	75-100	
4	1.18 mm	14	7.00	21.50	78.50	55-90	
5	600 μ	41	20.50	42.00	58.00	35-59	
6	300 μ	65	32.50	74.50	25.50	8-30	
7	150 μ	39	19.50	94.00	6.00	0-10	

Note:

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GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Test Report
Impact test

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	PCC(1:4:8)
Contractor	M/s KRIDL
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	26-Jul-2020
Date	4-Aug-2020

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1305	1302
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	345	342
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	79	80
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	266	262
6	Aggregate Impact Value (w4 / w3)x100	%	22.90	23.39
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **23.15** %

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	M20
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Raft
Sample No	1
Sample Collected Date	11-Aug-2020
Test Date	18-Aug-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength	Avg. Sample Strength	Avg. Strength
1	20	7	6.82	150*150*150	2020.74	318	0.0225	14.13		
2	20	7	6.81	150*150*150	2017.78	312	0.0225	13.87	14.03	
3	20	7	6.65	150*150*150	1970.37	317	0.0225	14.09		14.13
4	20	7	7.03	150*150*150	2082.96	315	0.0225	14.00		
5	20	7	6.82	150*150*150	2020.74	325	0.0225	14.44	14.22	
6	20	7	6.79	150*150*150	2012.15	320	0.0225	14.22		

Results: 7-days Compressive strength of cement is 14.13 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	M20
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete for Raft
Sample No	2
Sample Collected Date	11-Aug-2020
Date	18-Aug-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	sive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	6.98	150*150*1	2041.48	324	0.0225	14.40	14.18	14.31
2	20	7	7.02	150*150*1	2053.33	314	0.0225	13.96		
3	20	7	6.88	150*150*1	2011.56	319	0.0225	14.18		
4	20	7	7.20	150*150*1	2106.67	322	0.0225	14.31	14.44	
5	20	7	7.01	150*150*1	2050.37	329	0.0225	14.62		
6	20	7	6.98	150*150*1	2041.78	324	0.0225	14.40		

Results: 7-days Compressive strength of cement is 14.31 N/mm2

Note:

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ಬ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	M20
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete for Raft
Sample No	3
Sample Collected Date	11-Aug-2020
Date	18-Aug-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	sive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	7.08	150*150*1	2068.15	326.00	0.0225	14.49	14.27	14.40
2	20	7	7.12	150*150*1	2080.00	316.00	0.0225	14.04		
3	20	7	6.98	150*150*1	2038.22	321.00	0.0225	14.27		
4	20	7	7.30	150*150*1	2133.33	324.00	0.0225	14.40	14.53	
5	20	7	7.11	150*150*1	2077.04	331.00	0.0225	14.71		
6	20	7	7.08	150*150*1	2068.44	326.00	0.0225	14.49		

Results: 7-days Compressive strength of cement is 14.40 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	M20
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Raft
Sample No	1
Sample Collected Date	11-Aug-2020
Test Date	8-Sep-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	sive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	7.91	150*150*1	2343.7	520	0.0225	23.11	23.30	23.34
2	20	28	7.80	150*150*1	2311.11	525	0.0225	23.33		
3	20	28	7.70	150*150*1	2281.48	528	0.0225	23.47		
4	20	28	7.95	150*150*1	2355.56	530	0.0225	23.56	23.38	
5	20	28	7.91	150*150*1	2343.7	520	0.0225	23.11		
6	20	28	7.80	150*150*1	2311.11	528	0.0225	23.47		

Results: 28-days Compressive strength of cement is 23.34 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	M20
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete for Raft
Sample No	2
Sample Collected Date	11-Aug-2020
Date	8-Sep-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	sive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	8.01	150*150*1	2373.33	522.00	0.0225	23.20	23.39	23.43
2	20	28	7.90	150*150*1	2340.74	527.00	0.0225	23.42		
3	20	28	7.80	150*150*1	2311.11	530.00	0.0225	23.56		
4	20	28	8.05	150*150*1	2385.19	532.00	0.0225	23.64	23.47	
5	20	28	8.01	150*150*1	2373.33	522.00	0.0225	23.20		
6	20	28	7.90	150*150*1	2340.74	530.00	0.0225	23.56		

Results: 28-days Compressive strength of cement is 23.43 N/mm2

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೧೧೯

Test Report
Concrete Compresive strength

roject Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
lient	The Executive Engineer, Yelahanka Division, BBMP
ob No	QCDC/BBMP/YNK/PMC-03/2019-2020
lix Type	M20
ontractor	M/s KRIDL
est Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
ocation	Bay
laterial	Concrete for Raft
ample No	3
ample Collected	11-Aug-2020
ate	
ate	8-Sep-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	sive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	8.10	150*150*150	2400.00	524	0.0225	23.29	23.48	23.52
2	20	28	7.99	150*150*150	2367.41	529	0.0225	23.51		
3	20	28	7.89	150*150*150	2337.78	532	0.0225	23.64		
4	20	28	8.14	150*150*150	2411.85	534	0.0225	23.73	23.56	
5	20	28	8.10	150*150*150	2400.00	524	0.0225	23.29		
6	20	28	7.99	150*150*150	2367.41	532	0.0225	23.64		

sults: 28-days Compressive strength of cement is 23.52 N/mm2

te:

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GSTIN: 29AYHPN8663P1ZA

QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Steel

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Contractor	M/s KRIDL
Location	Bay
Material	Steel
Sample No	1
Sample Collected	5-Aug-2020
Date	10-Aug-2020

Sl. No.	Dia in mm	Weight in Kg/mtr	Average Weight Kg/mtr	Ultimate Load in KN	Ultimate Tensile stress in N/mm^2	Average Ultimate Tensile Stress N/mm^2	Elongation in mm	Bending and Rebending
1	8	0.395	0.4	32.2	640.6	622.7	20	OK
	8	0.398		30.4	604.79			
2	10	0.601	0.6	47.2	600.97	597.15	20	OK
	10	0.593		46.6	593.33			
3	12	0.896	0.88	72.8	643.69	631.32	20	OK
	12	0.872		70	618.94			
4	16	1.598	1.6	118.5	589.37	595.59	20	OK
	16	1.605		121	601.8			

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Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	100mm Slab
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Precast Slab
Sample No	1
Sample Collected Date	26-Aug-2020
Test Date	2-Sep-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength	Avg. Sample Strength	Avg. Strength
1	20	7	6.89	150*150*15	2041.48	320	0.0225	14.22	14.16	14.36
2	20	7	6.93	150*150*15	2053.33	319	0.0225	14.18		
3	20	7	6.79	150*150*15	2011.56	317	0.0225	14.09		
4	20	7	7.11	150*150*15	2106.67	322	0.0225	14.31	14.55	
5	20	7	6.92	150*150*15	2050.37	325	0.0225	14.44		
6	20	7	6.89	150*150*15	2041.78	335	0.0225	14.89		

Results: 7-days Compressive strength of cement is 14.36 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

For Qualiex Civil Design & Consultancy

Authorised Signature

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

Test Report
Concrete Compresive strength

Project Name	Construction of RCC Drain at Attur Layout and Surrounding Area in Ward No.03, Attur
Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-03/2019-2020
Mix Type	100mm Slab
Contractor	M/s KRIDL
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Precast Slab
Sample No	1
Sample Collected Date	26-Aug-2020
Test Date	23-Sep-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strengt	Avg. Sample Strength	Avg. Strength
1	20	28	7.90	150*150*150	2340.74	525.00	0.02	23.16	23.32	23.35
2	20	28	7.80	150*150*150	2311.11	529.00	0.02	23.33		
3	20	28	7.70	150*150*150	2281.48	532.00	0.02	23.47		
4	20	28	7.95	150*150*150	2355.56	534.00	0.02	23.56	23.38	
5	20	28	7.91	150*150*150	2343.70	524.00	0.02	23.11		
6	20	28	7.80	150*150*150	2311.11	532.00	0.02	23.47		

Results: 28-days Compressive strength of cement is 23.35 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this
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